

ABSTRACT OF THE DISCLOSURE

A micro-optical component comprises an optical element for interacting with an optical beam and a mounting structure for attaching the optical element to an optical bench. This optical element is solid phase welded to the mounting structure. Solid phase welding has
5 advantages in that it can be performed at lower temperatures than most soldering, even some eutectic soldering. Solid-phase welding, however, is much more robust during subsequent temperature cycling. This is especially important when the optical components undergo subsequent high temperature cycling.